

LISTING OF THE CLAIMS

Claims 1-12 (canceled)

Claim 13 (previously presented): A flat panel display comprising:

- a front plate;
- a rear plate;
- a layer of liquid crystals and a TFT array layer, both interposed between the said. front and rear plates; and
- at least one thermal sensor integral to the TFT array layer to provide temperature sensing of said layer of liquid crystals.

Claim 14 (original): A flat panel display according to claim 13, wherein said at least one thermal sensor is comprised of an array of diodes.

Claim 15 (canceled)

Claim 16 (previously presented): A flat panel display according to claim 13, wherein the at least one thermal sensor is applied onto the TFT array layer.

Claim 17 (previously presented): The flat panel display of claim 13, wherein:

- the thermal sensor provides a nominal 2.5 volt to 5.0 volt change in bias potential as the liquid crystal temperature changes from -60 degrees Celsius to 100 degrees Celsius.

Claim 18 (previously presented): The flat panel display of claim 13, further comprising:

- an EMI layer interposed between the front and rear plates.

Claim 19 (previously presented): The flat panel display of claim 18, wherein each at least one thermal sensor lies under the EMI layer.

Claim 20 (previously presented): The flat panel display claim 18, wherein the EMI layer is a black mask EMI layer.